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basic imagery interpretation report

Tyuratam Space Launch Site A1 USSR (S)

MISSILE RANGES: STRATEGIC SSM SPACE FACILITIES

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versions of the 1 and launched 2. (S/D) periods of refu observed at La observed. Sever 3. (S/D) additions at th	Tyuratam Space Launch Site A SS-6 ICBM. All of these space la from Launch Site A1. Since the previous NPIC reportishment activity—during the strunch Site A1. No modifications all ancillary features at the site ha This report describes this refur	pring of 1970 and the late winter-spring of 1979—have been to the launch pad or to the service gantry tower have been we been modified or constructed. This is the launch pad, the modifications and diditions to buildings at Test Support Facility 1. This report	25
INTRODUCTION 4. Tyuratam Space Launch Site A1 is in the center of the Tyuratum rangehead, approxinately 20 nautical miles north of the main support base (Figures 1 and 2). Site A1 and Test Support acility 1 the original facilities at the Tyuratam Missile and Space Test Center (MSTC), ere in use when the first US overhead photography of the rangehead was obtained in late August 1957.			
The facilities w 1960, all SS-6 of Tyuratam S Site A1 has o	vere probably started in 1955 an ICBMs and space vehicle version pace Launch Site B1 in late 1966 nly been involved in supporting the test center. Refurbishmen	d were completed in early 1957. During the period 1957 to ns of the SS-6 were fired from site A1. With the completion 0, the SS-6 ICBM firings were moved to site B1. Since 1961, g space vehicle launches and is the primary manned space tt, modifications, and additions have been observed since	
	BASIC	C DESCRIPTION	
(Figure 3). An arms mounted vertical arms so a support arm tower arms have to launching.	opening 15 meters in diameter around and on the aperture rin erve as launch vehicle stabilization for the necessary umbilical convective circular work platforms which	arge, square launch pad positioned over a large exhaust pit is centered in the launch pad with seven movable vertical ag within the opening in the launch pad. Four of the seven on arms, two serve as service tower arms, and one serves as mections to the launch vehicle (Figure 4). The two service is encircle the launch vehicle during the checkout phase prior anch pad is 90 degrees. The pad is flanked by a pair of ligh.	
tion of the sou apron. Also, th diameter tanks.	ith wall of the exhaust pit. Equi ie roof had been removed from	ament of the launch site was underway, as was a reconstruc- ipment, material, and vehicles were seen on the launch pad a partially underground building exposing at least 30 small- uilding during the January 1979 refurbishment that tripled it g the 1979 refurbishment.	
ment, material, movable vertica placed on the service tower was gantry service during the laterelated building	and vehicles were seen again or al arms that make up the gantry pad approach apron (Figure 3 vere observed. Because of the la tower was taken down and la est refurbishment consisted of the addition of a support building	own refurbishment of the launch site was underway. Equip- n the launch pad apron. During this refurbishment the seven reservice tower were removed from the launch pad aperture, reservice tower were removed from the launch pad aperture, reservice tower were removed from the launch pad aperture, reservice tower were removed from the launch pad aperture, reservice tower were removed from the launch pad aperture, reservice tower were removed from the launch pad aperture, reservice tower were removed from the launch pad aperture, reservice tower were removed from the launch pad aperture, reservice tower were removed from the launch pad aperture, reservice tower were removed from the launch pad aperture, reservice tower were removed from the launch pad aperture, reservice tower were removed from the launch pad aperture, reservice tower were removed from the launch pad aperture, reservice tower were removed from the launch pad aperture, reservice tower were removed from the launch pad aperture, reservice tower were removed from the launch pad aperture, reservice tower were removed from the launch pad aperture, reservice tower were removed from the launch pad aperture, reservice tower were removed from the launch pad aperture, reservice tower were removed from the launch pad aperture, reservice tower were removed from the launch pad aperture, reservice tower were removed from the launch pad aperture, reservice tower were removed from the launch pad aperture, reservice tower were removed from the launch pad aperture, reservice tower were removed from the launch pad aperture, reservice tower were removed from the launch pad aperture, reservice tower were removed from the launch pad aperture, reservice tower were removed from the launch pad aperture, reservice tower were removed from the launch pad aperture, reservice tower were removed from the launch pad aperture, reservice tower were removed from the launch pad aperture, reservice tower were removed from the launch pad aperture, reservice tower were removed from the la	
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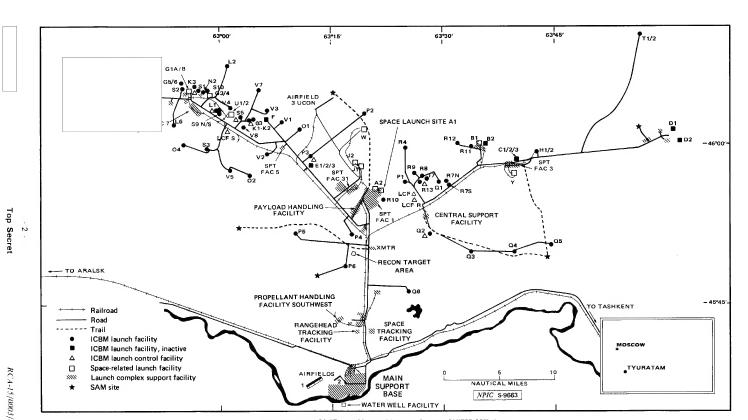
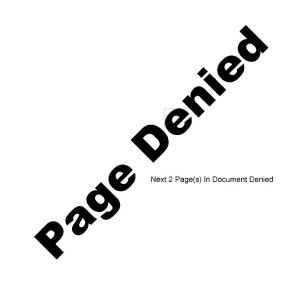


FIGURE 1. FACILITIES AT TYURATAM MISSILE/SPACE TEST CENTER SSM, USSR

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mately silo corings is not known. When this area was last observed, a cover had been placed over each approximately coring. 8. (TSR) On an SL-04 launch vehicle was seen erected on launch pad A1 (Figure 6). Since this vehicle was not launched, it was probably being used to check out the launch pad for an actual launch in the future.	25X1 25X1 25X1
9. (TSR) Test Support Facility 1 (Figure 2) is connected by rail to Space Launch Site A1 and to Space Launch Site J1/2 and has supported both launch sites. Originally, it consisted of two assembly and checkout areas. The first area contains the original assembly building and a spacecraft preparation building that has supported sites J1/2 and A1. An addition to the original assembly building was constructed between July 1973 and May 1974. Also, an addition was made to the spacecraft preparation building between December 1968 and February 1970. The second assembly and checkout area supported the SS-6 payloads—both weapons and space. With the completion of Space Launch Site B1, this area supported the SS-9 weapons program and subsequently supported the SS-17 and SS-18 weapons programs. The area is now designated the Tyuratam MSTC Payload Handling Facility	25X1
REFERENCES	
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in the preparation of this report.	
MAPS OR CHARTS SAC US Air Toward Chart, Spring 200, Short 0246-12, angle 1/200 000 (UNIC) ASSITIED)	
SAC. US Air Target Chart, Series 200, Sheet 0246-13, scale 1:200,000 (UNCLASSIFIED) DOCUMENTS	
1. DOD/FTD. DST-1070S-311-76-SA0, Tyuratam Missile Test Range (U) 27 Aug 79 (TOP SECRET	25X1
	25 X 1
2. NPIC Tyuratam Missile Test Center Launch Complex A, Dec 66 (TOP SECRET 3. Air et Cosmos (magazine, in French), No 710, 18 March 1978 (UNCLASSIFIED)	25X1
RELATED DOCUMENT	
NPIC. CA-15/0006/79, Activity and Developments at Tyuratam Missile/Space Test Center SSM, May 1978 – November 1979 (TSR), Apr 80 (TOP SECRET	25X1 25X1
REQUIREMENT	

(S) Comments and queries regarding this report are welcome. They may be directed to Soviet Strategic Forces Division, Imagery Exploitation Group, NPIC,

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